

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: TEK0CH@aol.com
Subject: Ameco PLF-2 Preselector
Message-ID: <951125002921_115781825@emout06.mail.aol.com>

I am looking for an Ameco PLF-2 preselector to use with my Collins 51S-1 receiver to boost it's effectiveness on 160 meters.

Tom Koch W4U0C
8170 Habersham Waters Road
Dunwoody, GA 30350

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: Bill VanAlstyne <bill@starquest.com>
Subject: Re: Article about Thomas Edison
Message-ID: <199511242115.AA00300@cruz.com>

At 01:55 AM 11/24/95 -0600, Jim Haynes wrote:

>The December issue of Atlantic Monthly has a good article about Edison,
>his laboratory, his methods of inventing. There's a picture, not explained,
>showing Edison holding a light bulb with a long snout out the side, and
>next to him is another light bulb with a couple of extra electrodes
>brought out through wires. Looks like he could have had a full-wave
>rectifier there. Says the Edison Papers Project started in 1978, there
>are perhaps 5 million pages of material, and they don't have the end
>in sight.

For those interested in this complex, enigmatic genius, an excellent new biography is Edison: Inventing the Century by Neil Baldwin (New York: Hyperion, 1995) ISBN 0-7868-6041-3. Brilliantly researched and written, extensively annotated, many photographs, a real-life adventure story that examines minutely the character and personal life of the man, as well as his accomplishments. Highly recommended.

Bill VanAlstyne, N6FN
bill@starquest.com

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: merrigan@ee.ualberta.ca
Subject: Books.....
Message-ID: <199511250042.SAA07430@uro.theporch.com>

I attended the U of A's semi-annual book sale on Wednesday last; pretty slim pickings in the radio and EE areas. Tons (literally) of books on geology, oil well drilling and geophysics.

However, I did manage to scrounge up Radio Handbook, nineteenth (1972) by Orr, and Basic Electrical Engineering by A.E Fitzgerald (1946).

Radio Handbook by Orr looks very interesting. Situated (temporally) smack between hollow state and solid state eras, there is plenty of both in the book. The Fitzgerald book has wealth of information on basic tube theory, and applications. Well worth the \$1.00 each :-).

I'll be first in line for the sale in March of 1996!

--

Shaun P. Merrigan
3rd Year EE University of Alberta
merrigan@nyquist.ee.ualberta.ca

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: MEC <danmec@inet.uni-c.dk>
Subject: Early Marconi morse key
Message-ID: <Pine.3.89.9511242357.A21327-0100000@inet.uni-c.dk>

I have acquired a morsekey which is not like anything I have ever seen and suspect it is an old spark transmitter key.

It has a brass label with :,The Marconi International Marine Communications Co, London.

On the side is another brass label with : 365A. No 246.

The whole base is brass too.

It has several terminals labelled :

TR

TL

BR

BL

AC

AC, and a E-post (Earth ?)

I have never seen anything like it, so I guess it must be from the very early days of wireless.

Can anyone help in identifying it ?

Thanks

73 Rag OZ8RO

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: w7ni@teleport.com (Stan Griffiths)
Subject: Re: Glue for Delrin Pots in Tek Scopes
Message-ID: <199511251359.FAA06099@desiree.teleport.com>

>I don't have a way to assay the
>material. Maybe Barry can help us with this.

I can probably come up with some broken pots for Barry to experiment with if you can convince him to do it and tell me where to send them.

>If the stuff really is nylon, I think the only adhesive that will
>really hold it is cyanoacrylate. The stuff is a thermoplastic, but is
>"proof" against acetone and ketones, and I don't know anything that
>will melt it for welding.

You're over my head with chemistry now. I don't know anything about "cyanoacrylate". I have one of these now famous pots that was installed in an H unit that was cracked parallel with the shaft on both sides of the set screw. I backed off the set screw, cleaned the pot surface all around the cracks with alcohol, mixed up some two-part epoxy called "J-B Weld", and filled in all the area around the cracks and on the other side of the shaft too. I let it sit for a couple of months (not intentionally, but just because I didn't have time to get back to it) and just now tightened the set screw back down. It seems to hold just fine and the shaft now turns the pot. It remains to be seen if it will continue to hold, but maybe I have found something that will actually stick to the pot material, whatever it is. Reading the label on the "J-B Weld" it says it contains "Aliphatic Polyamine/Polyamide/Epoxy Resin". This stuff is made by the J-B Weld Company, P.O. Box 483, Sulpher Springs, TX 75482, Phone: (214) 885-7696. It is an equal-part type epoxy with two tubes of material on a bubble pack card that I bought at the local G.I. Joe's for \$3.29. The material in the tubes is very thick, like paste. One of the materials is almost black and the other is tan giving the mixture a medium grey color. It formed fillets nicely and appears to have strengthened the pot way beyond what it was originally. I wonder if applying this stuff to pots that have not yet cracked would be good preventative maintenance? What do you think Hank?

>As I said, the particular pot has a stress crack along the setscrew
>hole. Could be that it was originally undersize, and cracked because
>the screw put a lot of stress on it. All the others I've seen, the
>boss holding the setscrew has been OK, but has broken away at the
>corners where the boss intersects with the rest of the cross. Looks to
>me as though Tek's mold maker was familiar with zinc practices. The
>fillets on that cross all ought to be around .025 or so, to prevent

>stress concentration. It would have been just as easy to make the mold
>that way.

>--

>*****

>Hank van Cleef vancleef@bga.com vancleef@tmn.com

>*****

Well, maybe we can make up for the mold-maker's short-comings with J-B Weld.

By the way, there weren't very many parts made of plastics in these old scopes. All of them that were, however, seem to give problems now. Looking at all the plastic in the 7000 series and TM500 stuff makes me shudder to think what kind of problems they will have in 10 years.

Stan W7NI@teleport.com

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995

From: "Allan Fritsche" <fritsche@msn.com>

Subject: IF alignment- am I crazy

Message-ID: <UPMAIL03.199511250029260229@msn.com>

A liittle nostalgia at first. I spent a few years in Korea as a tech back in 1967. Spent most of the time taking care of about 30 R390,391's. and I believe BC-610's , werent they the ones with 3 drawers?.

At any rate I had an operator that, no matter how careful I was with receiver alignment he always was dissatisfied. I am pretty sure he was a Ham StateSide, so one cold winter night around Christmas I asked If he could do a better job then me on aligning the R391's. He said that frequency coverage and tracking was O.K, but the sensitivty wasnt up to snuff. I said OK do your thing. He just turned up the rf gain max and tweeked the IF module on noise.

Sure as hell, it seemed like it was more sensitive.Why?, I can't remember what

selectivly the receiver was on but I have notice on the few boatanchors I own , especially ones with old crystal filters that it seems to improve overall sensitivty done this way .Is it just the age of the crystals or what?, or are we overdriving the front ends with a sig generator ?. Any help from the learned Gentleman out there.

Al Fritsche
fritsche.@msn.com

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: bill@texan.frco.com (William Hawkins)
Subject: Re: IF alignment- am I crazy
Message-ID: <9511250253.AA10041@texan.frco.com>

That works because it allows for the crystal peak being somewhat different from what your signal generator thinks is the "correct" IF frequency. Using noise, you align precisely to the crystal frequency.

Bill Hawkins

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: shiso@ici.net (Bruce Gavin /KD1MW)
Subject: Jhonson 500 mod. Iron?
Message-ID: <9511242238.AA28002@ici.net>

Hello to all:

Is there anyone who has experience with or knows of a source for a modulation transformer for a Johnson Five Hundred Transmitter? The original mod. transformer fails hy-pot test. Tests show 2ma. leakage at around 500vdc to ground both on primary and secondary windings out of circuit. Any suggestions will be appreciated. Thanks. Bruce KD1MW

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: TEK0CH@aol.com
Subject: Manual for Heathkit Mohawk RX-1 Receiver
Message-ID: <951124224256_115721085@mail06.mail.aol.com>

I have restored a Heathkit Mohawk RX-1 receiver with some success without a manual or schematic. Is there anyone out there that might have a manual or copy that I could purchase? I have this receiver mated up with the Apache TX-1 and the SB10 SSB adapter. I am on the air on 3.885 or 1.945 mhz quite often with the Apache or Globe King 500-C. I hope to work Y'all

Thomas E. Koch W4UOC
8170 Habersham Waters Road
Dunwoody, GA 30350

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995

From: n5off@w5ddl.aara.org
Subject: Poop On Eldico/Collins Connection
Message-ID: <232910@w5ddl.aara.org>

Gentlemen?

This info is from Ray Moore's book on receivers.

According to K6QQ, Eldico second sourced the S-Line for a mil contract. When the contract ended, Eldico decided to sell the equipment commercially as the R-119 amateur SSB system, consisting of T-102 and R-104, along with accessories. The sets were S-Line clones.

Collins was none too happy about the arrangement, and sales soon stopped.

R-104

14 bands 200 kcs ea.

IF's 2855-3055 and 455

Tubes

6DC6 RF
6DC6 CAL
6AH6 RX0
6BE6 MIX 1
6BE6 MIX 2
6U8A VFO
2 6BA6 IF
6BE6 PROD DET
6AT6 AM DET/AVC/AF1
6AQ5 AF

Clone of 75S-1 5/12/60 manual date.

73 de tom

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: n5off@w5ddl.aara.org
Subject: R-390 IF alignment
Message-ID: <232912@w5ddl.aara.org>

I cheat on this alignment as I monitor the IF output freq with a counter and make sure it is exactly 455.

But I've experienced a problem, it is tough to get the thing aligned properly on 16 kcs and 8 kcs at the same time. I've noticed other

R-390's that I've played with are peaked at either 16kcs or 8kcs bandwidth.

What gives here? Mine kicks b*tt on 8kcs, but sounds off freq on 16.

Ideas????

73 de tom

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995

From: jml@spider.lloyd.com (Jim Lockwood)

Subject: Soft starting rigs

Message-ID: <m0tJL8z-000TSMC@spider.lloyd.com>

Gang,

While I was away stuffing myself on turkey, several list members asked me for more info on the inrush current limiters I used on my rigs. I'll be glad to provide all the details to the list; at the moment, I'm still getting caught up on "stuff" so it'll be a day or so until I can get a round tuit. I wanted to send this out, though, to acknowledge the request.

Hope everyone who overstuffed on turkey and dressing Thursday is recovering nicely.

73,

Jim - km6nk

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995

From: Lrware@aol.com

Subject: Tek 570 and "off the wall" project...

Message-ID: <951124221048_33118265@mail04.mail.aol.com>

Gentlemen:

The flurry of mail concerning my request for a good transconductance tube tester

has resulted in a number of references to a almost impossable to get BA.

The fabled Tek 570: hollow state curve tracer.

One of our resident experts tells me:

In a message dated 95-11-24 01:42:40 EST, vancleef@bga.com wrote:

<edited for space>

>The 570 had a heater supply (like a tube tester), and two variable

>voltages (screen and grid bias), and a meter for showing them and the

>heater voltage, which could also be varied around the center. The

>horizontal axis was a current display, the vertical, voltage. Another
>set of switches selected the power supplies to be monitored. There was
>a voltage sweep generator generally used on the plate and a step
>generator used on one of the grids, similar to the transistor tracer
>setups. The tube sockets were mounted on small panels with a banana
>jack for each pin. Connection to the tracer was banana jack jumpers
>from the panel to the socket plate. There were setups for two sockets,
>and a switch allowed selecting either one.

>

>These products were not hot sellers, and were dropped from the Tek line
>around 1965. A few were sold to educational institutions for
>educational use, and a few tube manufacturers bought them in small
>quantities, but the largest user base seems to have been users who
>wanted a tool for matching tube DC characteristics.

<edit for space>

>They are very

>uncommon in the used market, and the golden ear audio crowd have bid
>them right out of sight. I think they go for around 1200-1500 dollars

This raises a couple of interesting and intriguing ideas...

I've built a general purpose low cost transistor curve tracer for bi-polars
and fets

at a cost of less than \$20 (not counting O-scope for display).

I'm thinking of adding a couple of power supplies, and several high voltage
amp

modules to the design.

Should be able to do dynamic DC curves on low receiver power tubes, (ie.
4CX1000's need not apply.)

The question is: would anyone else be interested in something like this?

I don't have the time to build design/debug/build something like this with
"hollow state"

technology, so I'm going to cheat and use surplus high voltage op-amps, etc.

If your interested let me know and when I get it working, I'll be happy to
send you

everything I know and learned about this. (Should take about 5 seconds or
less! :-)

I should also point out that a number of very smart people have told me this
kind of tool has limited applications. In the spirit of the "homebrew
experimenter" and "recreating the wheel" I think I'll build one and see if I
can get it to do anything useful.

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995

From: don merz <71333.144@compuserve.com>

Subject: Teletype manual copies available

Message-ID: <951125034935_71333.144_DHB50-1@CompuServe.COM>

If anyone needs any genuine "Teletype" (tm) manuals I have recently come into some dating back to 1934 and the model 12, 14 15 etc. up to model 33. I can make copies if you are looking for something in particular.
73, Don

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: jproc@worldlinx.com
Subject: Transformers as Chokes
Message-ID: <Chameleon.4.01.2.951124103757.jproc@jproc>

Dear BA's,

Has anyone had experience with using a single winding of a power transformer as a choke for a power supply filter? I have plenty of power transformers in my junk box, but short on chokes.

Regards,

~~~~~  
Jerry Proc VE3FAB  
E-mail: jproc@worldlinx.com  
Radio Restoration Volunteer  
HMCS Haida, Toronto Ontario  
~~~~~

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: FRANCIS4@AppleLink.Apple.COM (Francis, Dexter)
Subject: Welcome & BA Book report
Message-ID: <817275914.2223388@AppleLink.Apple.COM>

Forgive me if this is a gross breach of etiquette, but I wanted to point out, to those who haven't noticed yet, that Jay Miller, co-author of the "Pocket Guide to Collins..." has recently joined the list. (I met Jay briefly in the parking lot of a 7-11 a few weeks ago and he was kind enough to autograph my copy of the PGtC.) Having just made the jump to owning a 51S-1, I'm delighted to have him on board and look forward to any bits of Collins knowledge he may offer.

On a related topic (BA Books) I just acquired a copy of an adolescent adventure story by Walker A. Tompkins (K6ATX) titled "SOS at Midnight". (McRae Smith Publishing, 1957) It's sort of a Hardy boys style adventure story with ham radio as the centerpiece. It's been pretty good so far (133 pages down and 90 to go) but I must say that if his version of ham jargon in the late 50's is

accurate, we've come a long way. Regardless, I am going to pass it on to my 9 year old son when I'm done reading it.

-df

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995

From: Bill VanAlstyne <bill@starquest.com>

Subject: Re: Welcome & BA Book report

Message-ID: <199511250549.AA01541@cruz.com>

At 11:08 PM 11/24/95 -0600, you wrote:

>On a related topic (BA Books) I just acquired a copy of an adolescent adventure
>story by Walker A. Tompkins (K6ATX) titled "SOS at Midnight". (McRae Smith
>Publishing, 1957) It's sort of a Hardy boys style adventure story with ham
>radio as the centerpiece. It's been pretty good so far (133 pages down and 90
>to go) but I must say that if his version of ham jargon in the late 50's is
>accurate, we've come a long way. Regardless, I am going to pass it on to my 9
>year old son when I'm done reading it.

Dexter,

I remember it well! I read that book when I was in the 8th grade, a year before I got my Novice ticket. I was so impressed with it, I plagiarized it! Well, not exactly -- but I did borrow the concept, and a bit of the basic plot idea.

When it came time to write a short story for my English class, I "finessed" the title (calling my story "SOS at Sunset"), made up some new characters (the hero was a high school senior who had a *car*, not to mention a *ham radio in his car*, which was about the coolest thing I could think of...) and dreamed up some cool pseudo-spook technology (bouncing super-low-frequency signals off the molton core of the earth -- huge underground antennas, pointed down, the ultimate in stealth technology) -- so it had a good bit of originality in it. Anyway, I had a lot of fun writing it, and got a 98 on it. Even had a little "sex" in it. Pretty racey for a 13-year-old kid in 1961, but I knew good old Mr Hugel would appreciate it. :)

So, pass the flame, I guess. Hope your son enjoys it. He probably won't. ;-)

Bill VanAlstyne, N6FN
bill@starquest.com

From boatanchors@theporch.com Sat Nov 25 20:33:00 1995
From: johnmb@nando.net
Subject: WWW BA Photos
Message-ID: <9511251258.AA08990@merlin.nando.net>

The WWW page and associated software are coming along well, and a first incantation of it should be available in a couple weeks.

...and now I could use your help. Could those of you willing to share station/shack/rig whatever photos, begin thinking about taking some, along with a few paragraphs to go with them? It might be interesting to see before and after restoration shots, homebrew Hartley rigs, the unruly pile of rusty iron you just retrieved, etc.

I am thinking of having a rotation of 30's , 40's, 50s and 60's stations always available, as well as a collection of more temporary images perhaps augmenting discussions that might be happening on the list, etc. (for example, if someone with a camera is willing to document rewinding a transformer, or rebuilding a meter or maybe homebrewing a receiver, it might be neat to have images available to aid in the discussion).

Please drop me an email should you have some pictures you'd like to see me install in the Web space.

Thanks
/john
wb5oau/4